



El truck 48VAC 100 D

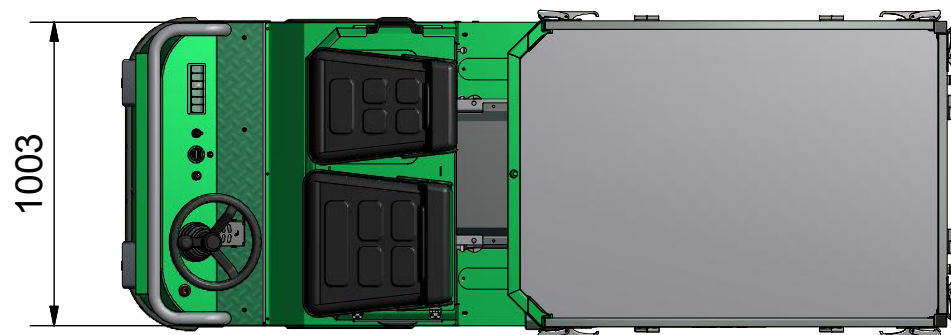
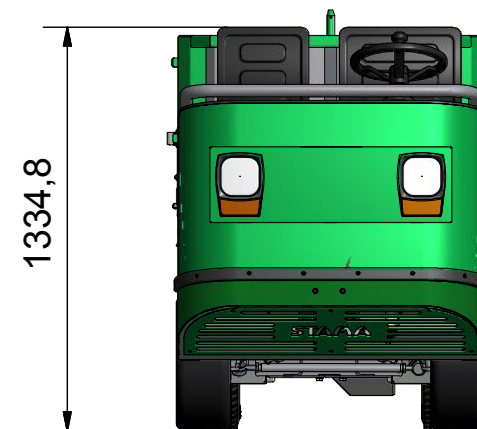
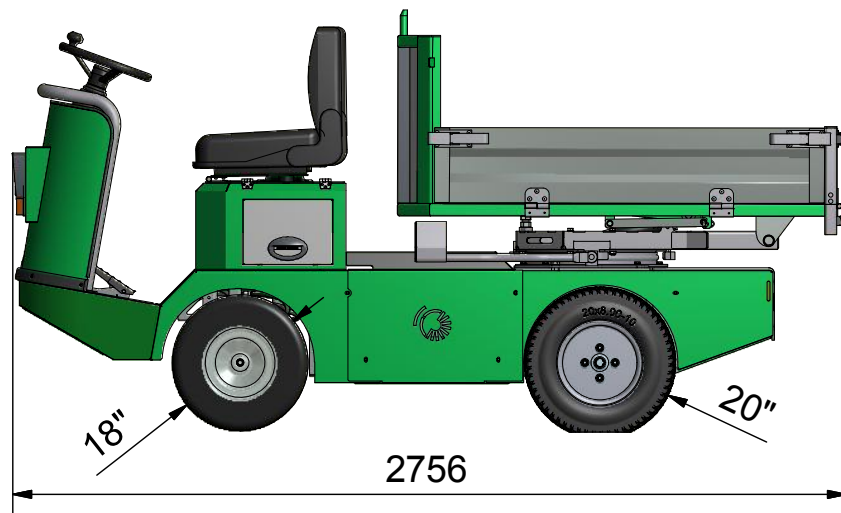
Max speed 20 km/h

Electric power 4 kW

Ext. Turnradius 2650 mm

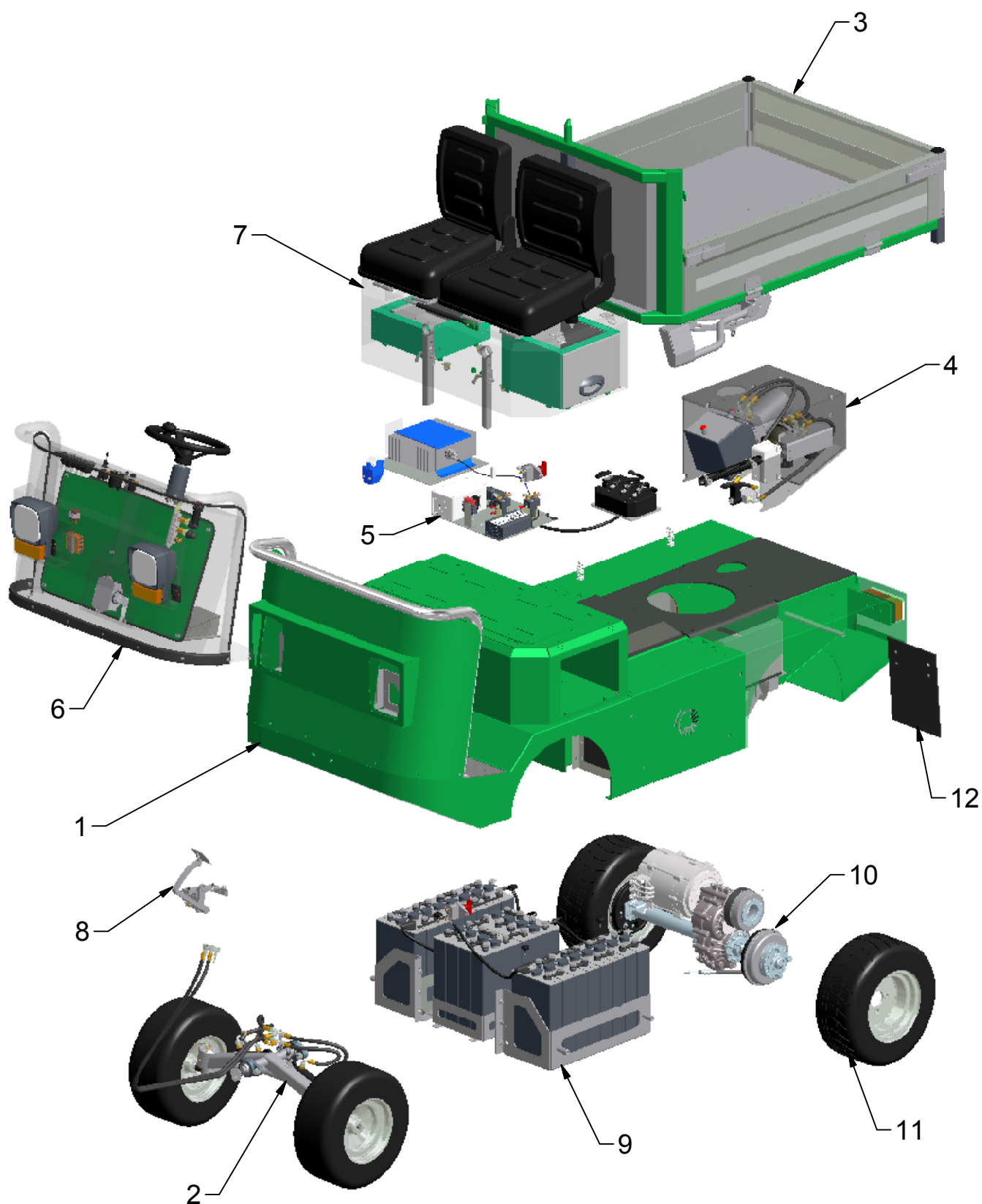
Weight 1008 kg (725 kg + 283 kg batteries)

Max load Rear-Tip 1400 kg, Turntable 1000 kg



El truck 48VAC med drejelad

Tegnet 5/10-2010 KJ





Multitruck 48/12V 2015

Partno 78-202-501 - 23/10-2010

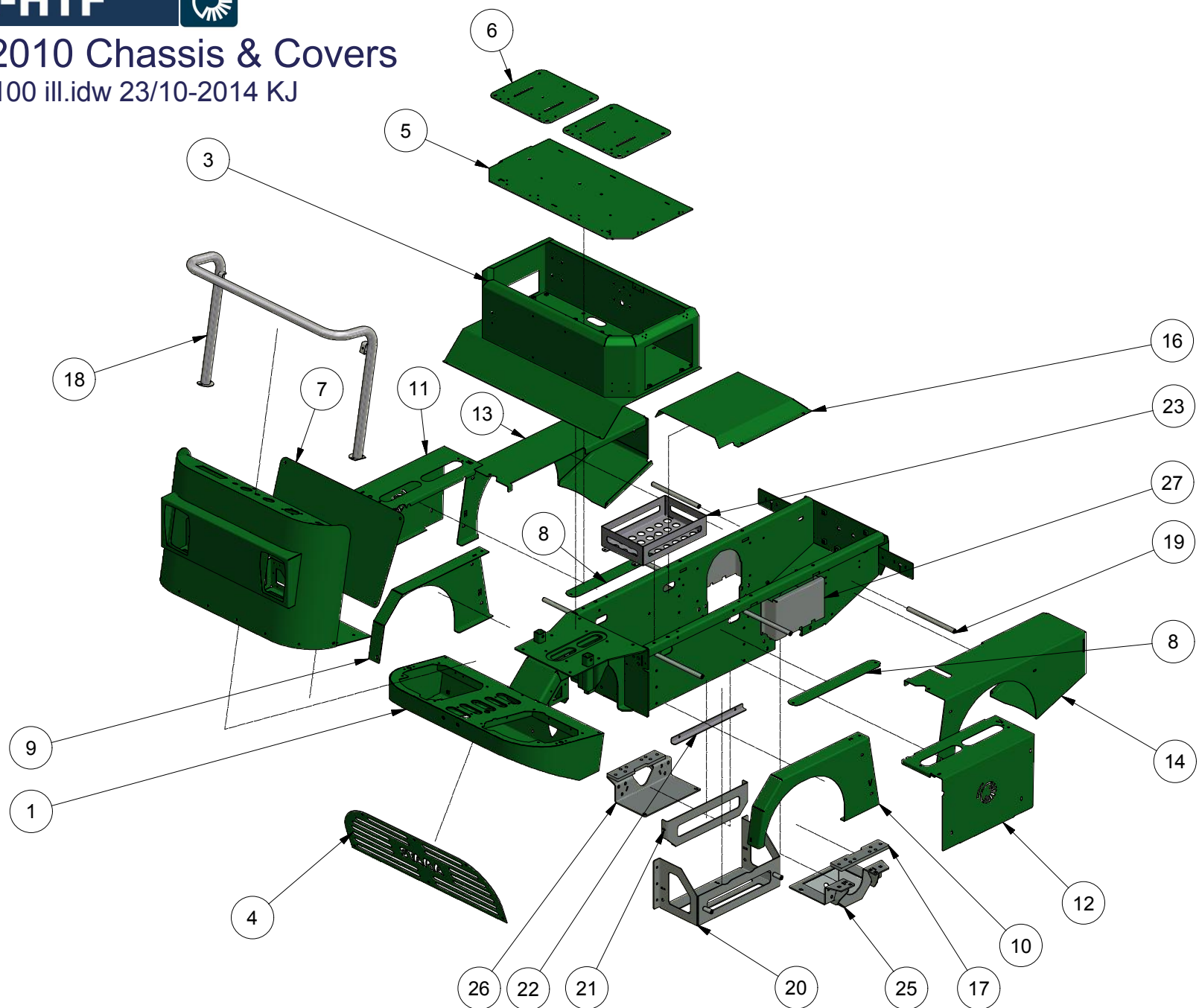


<i>Pos.</i>	<i>Description</i>	<i>Pcs</i>	<i>Drawing No.</i>	<i>Note</i>
1	Chassis parts	1	78-010-100	
2	Hydraulic steering	1	Styrertøj res 2009	
	Front wheel	2	52537580260	18"
3	Flatbed rear tip	1	78-202-550	Std., max 1400 kg
	Flatbed turnable		77-801-400	Option, max 1000 kg
	Flatbed rotational		78-202-400	Option, max 1000 kg
4	Hydraulic system	1	78-410-230	
5	Electronics	1	78-410-240	
	Wire harness	1	9806130	
6	Front assembly	1	78-410-210	
7	Seat box assembly	1	78-010-120	
9	Lead-acid battery	1	78-010-150	Std.
	Lithium battery option		77-801-790	Option
10	Motor transaxle	1	78-010-160	
11	Rear wheel	2	TT.1020800-01	20"
12	Splash flap	6	77-801-580	



Multitruck 2010 Chassis & Covers

Partno 78-010-100 ill.idw 23/10-2014 KJ





Multitruck Chassis + Covers

Model 2013 Partno 78-010-100

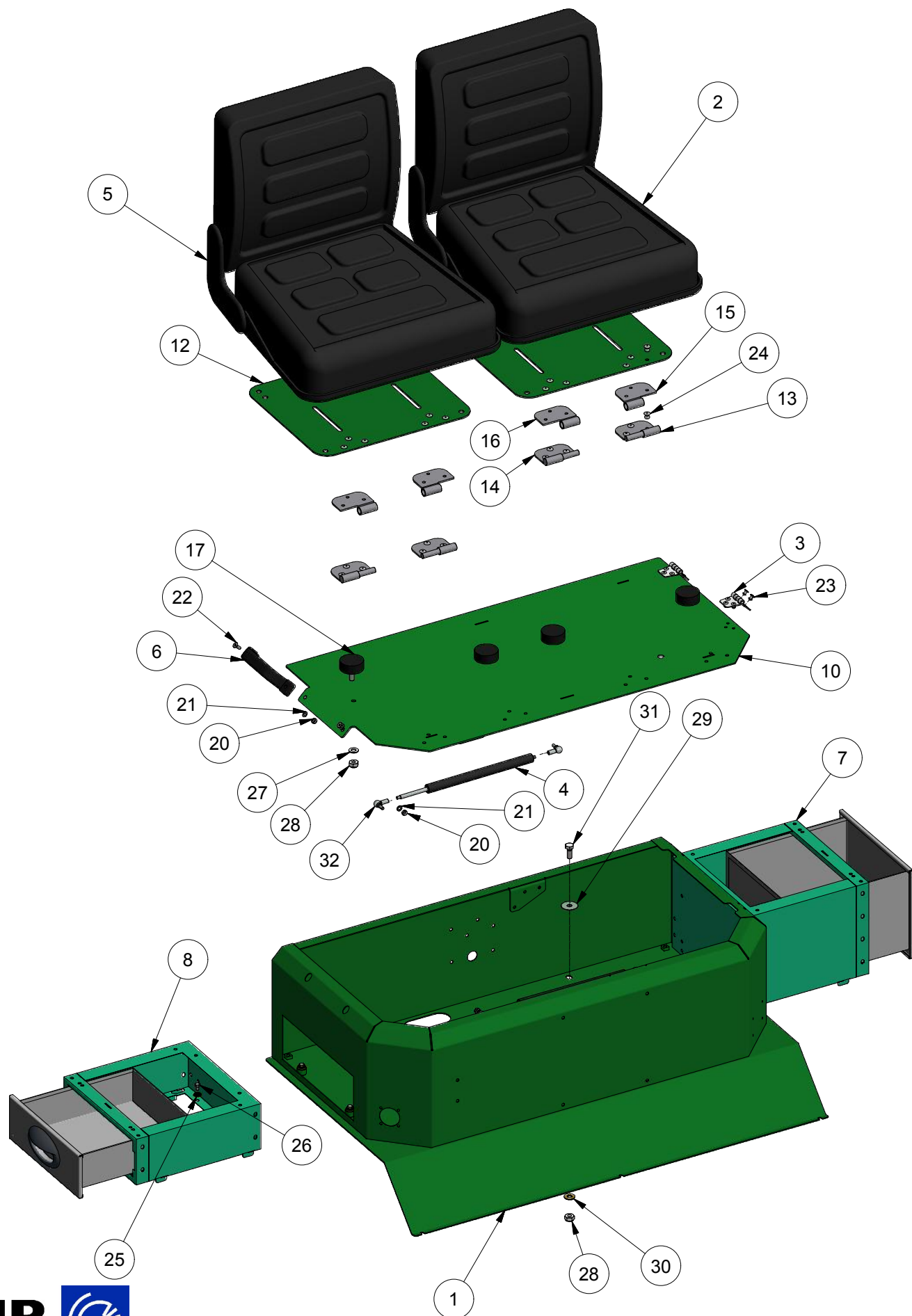


Pos.	Description	Pcs	Sparepartno	Note
1	Chassis parts	1	77-801-210	
2	Hydraulic steering	1	77-801-250	
3	Seat box	1	78-501-120	
4	Lower front screen	1	77-801-225	
5	Seat box lid	1	77-801-285	
6	Seat plate	1/2	78-501-110	2 Seat Option
7	Front panel	1	77-801-267	
8	Inspection lid for batteries	2	77-801-368	
9	Front right screen	1	77-801-375	
10	Front left screen	1	77-801-365	
11	Battery screen right	1	77-801-377	
12	Battery screen left	1	77-801-367	
13	Wheel fender right	1	77-801-395	
14	Wheel fender left	1	77-801-390	
16	Center lid	1	77-801-202	
17	Mount for transaxle	2	78-005-415	
18	Front pipebend	1	77-801-530	
19	Distance axles	6	77-801-201	
20	Battery box	2	78-006-400	
21	Battery spanner	2	78-006-406	
22	Battery holder	2	77-801-380	
23	Battery box center	1	78-006-410	
25	Transaxle bracket left	1	78-005-410	
26	Transaxle bracket right	1	78-005-420	
27	Transaxle screen	2	78-006-420	



Multitruck Seatbox / Sitzkiste / Sædekasse

Model 2015 Drawing 78-701-320 - 24/1.2017



Seatbox/Sitzpodest/Sædekasse

Drawing 78-701-320

Multitruck Model 2015 - 23/1.2017



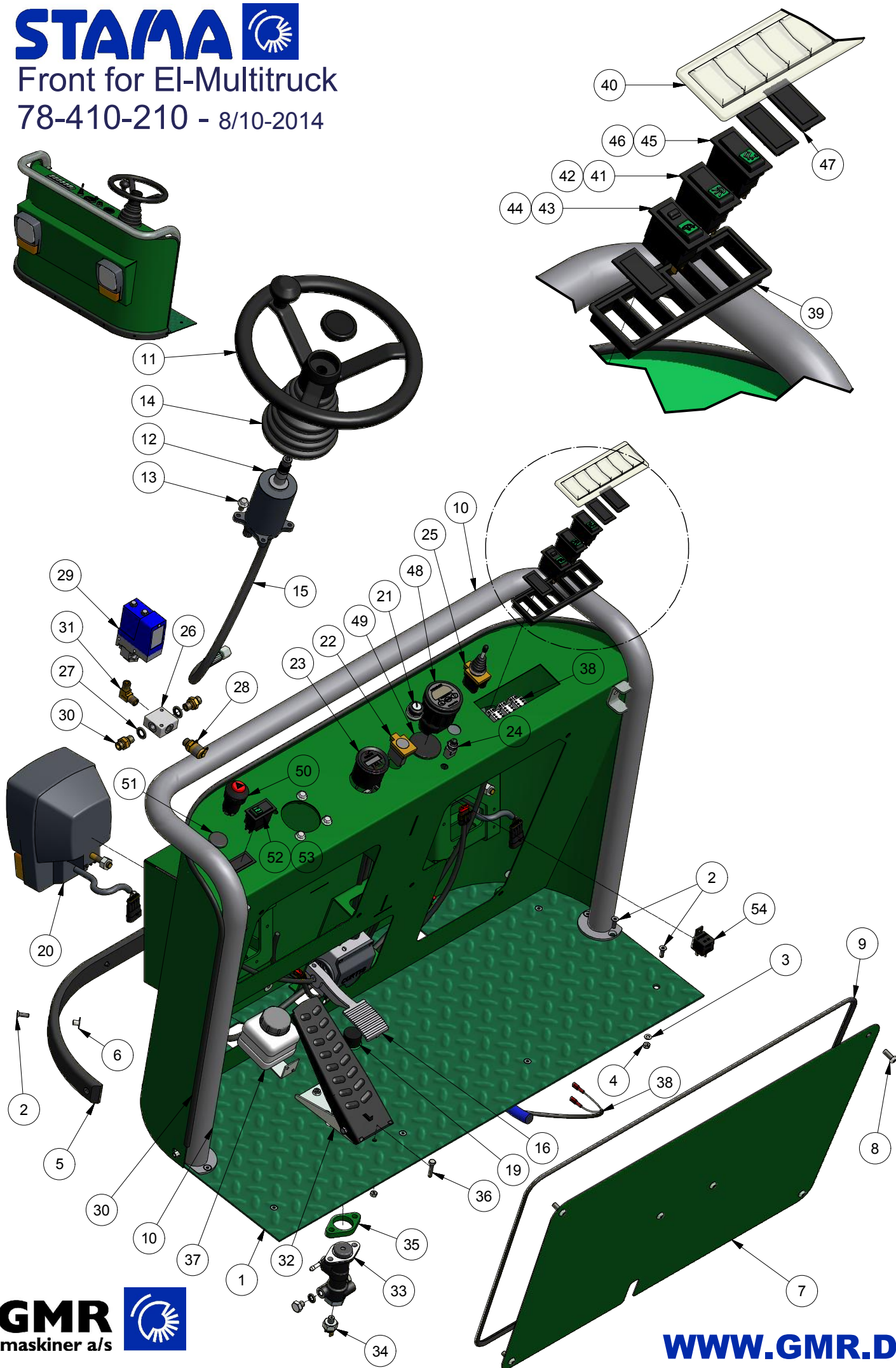
Pos.	Description	Pcs	Sparepartno	Note
1	Seatbox	1	78-501-120	
2	Driver seat	1	2015-0093	Incl. Seat switch
	Pillow with Seatswitch	1	1350-200630	
3	Hinge	2	63.05342	
4	Gas spring	2	223-400-02	
5	Passenger seat (option)	1	2015-0094	Option
6	Handle	1	A16687	
7	Drawer, tall	1	659052	
8	Drawer, low	1	654426	
10	Seatbox lid	1	78-501-110	
12	Seat plate	2	77-501-436	
13	Hinge - Male right	2	223-002-15	
14	Hinge - Male left	2	223-002-10	
15	Hinge - Female right	2	223-002-20	
16	Hinge - Female left	2	223-002-25	
17	Rubber buffer	4	91-25-126	
20	Locknut	6	31-101-006	
21	Washer	6	36-300-006	
22	Unbracobolt	2	32-006-016	
23	Rivet	12	950-6-6	
24	Rivet	24	959-6-8	
25	Locking washer	8	35-200-006	
26	Setscrew	8	29-106-010	
27	Washer	4	36-300-010	
28	Locknut	8	31-101-010	
29	Washer	4	36-200-010	
30	Locking washer	4	35-200-010	
31	Bolt	4	29-110-025	
32	Gas spring joint	4	1100-101006	



STAMA

Front for El-Multitruck

78-410-210 - 8/10-2014





Front Multi-Truck

Model 48/12V 78-410-210 - 8/10.2014



Pos.	Description		Sparepartno	Note
1	Front	1	77-801-250	
2	Allen screw	20	32-006-020	
3	Washer	12	36-300-006	
4	Locknut	12	31-101-006	
5	Bumber	1	77-801-248	
6	Flangenut	8	31-800-006	
7	Cover	1	77-801-267	
8	Allen screw	6	0310-08020	
9	Edge trim	1	Kantgummi	4,5 M
10	Frontpipe	1	77-801-530	
11	Steering wheel	1	0032.0412	
12	Hydraulic steering unit	1	910334151	
13	Flangebolt	4	29-308-016	
14	Rubber cuff	1	8540-10797	
15	Hose nr. 9 = M14x 9/16"ORFS	1	031-0600-FM140-FO090	1/4" 600mm
16	Throttle	1	15945105	
17	Allen screw	2	32-108-022	
18	Locking washer	2	35-200-008	
19	Rubber buffer	1	5130204	
20	Headlight with connector	2	78-410-215	
21	Keyswitch	1	ZB4BG2	
22	Switch socket	1	ZB4BZ101	
23	Display	1	17472703	
24	Horn switch	1	S1213A	
25	Direction switch	1	A12316	
26	Hydraulic connector block	1	EFK30-3	
27	Seal	2	42-000-014	
28	Hydraulic test point	1	MT01-104	
29	Pressureswitch, differential	1	XMLB160D2S11	35 - 60 Bar
30	Male stud coupling	1	A08RL	1/4"
31	Elbow	1	05KK04	
32	Brake pedal	1	30610	
33	Brake cylinder	1	17005-2	
34	Brake pressure switch	1	11000IDRO	
35	Spacer plate	1	78-010-111	
36	Setscrew	1	29-106-030	
37	Brake fluid reservoir	1	KT003630	
38	Wire harness, front	1	9806131	
39	Frame for rockerswitches	1	595902	
40	Silicone cover	1	594268	



Front Multi-Truck

Model 48/12V 78-410-210 - 8/10.2014

Pos.	Description		Sparepartno	Note
41	Rockerswitch, Lights 0-1-2	1	511003	12V
42	Switchsymbol, Light	1	596648	
43	Rockerswitch, two-speed	1	511170	
44	Switchsymbol, turtle	1	595969	
45	Rockerswitch, Flatbed	1	511287	
46	Switchsymbol, Tip	1	596469	
47	Spare switch cover	4	596273	
48	Battery monitor for lithium	1	78-307-201	Option 77-801-790
49	Cover plug	1	DPD 55 01	ø55
50	Hazard switch	1	I36006	Option 77-801-765
51	Cover plug	1	DPD 32 01	ø32
52	Rockerswitch, turn indicator lights	1	511147	Option 77-801-765
53	Switchsymbol, arrows	1	595200	Option 77-801-765
54	Blinker relay	1	1425-156000	Option 77-801-765





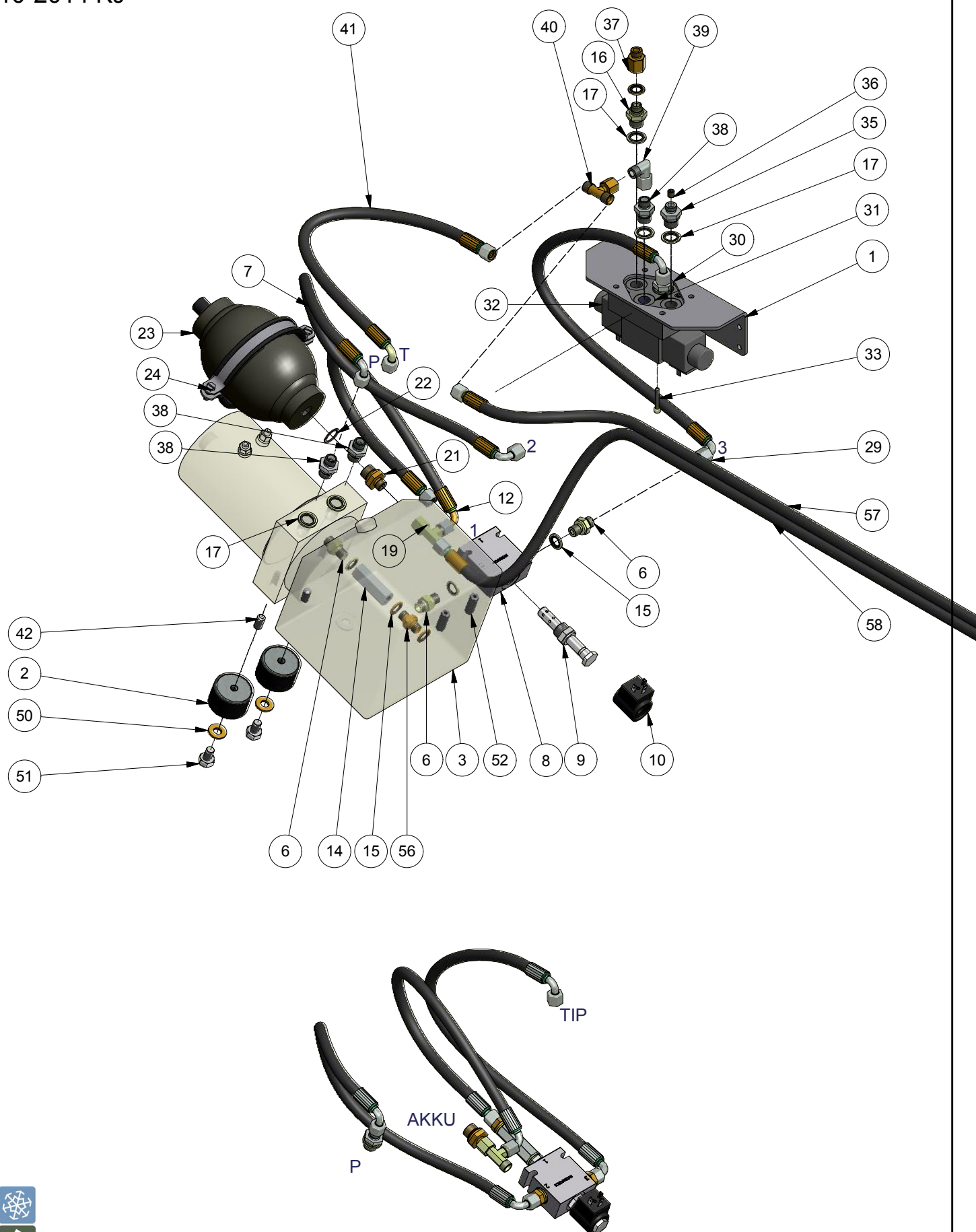
Pos.	Description	Pcs	Sparepartno	Note
1	Front axle	1	77-601-160	
2	King pin left	1	223-100-45	
3	King pin right	1	77-801-520	
4	Frontwheel	2	52537580260	18"
5	Tie rod	1	223-100-70	
6	Ball joint	2	2000 F1156	
7	Bolt	2	29-116-060	
8	Steering cylinder	2	01-632-904	
9	Ball bearing	2	7500 7205BEP	
10	Ball bearing	2	54-016-205	
11	Large washer	2	77-801-525	
12	Locking washer	2	35-200-012	
13	setscrew	2	29-112-030	
14	Flange bearing	2	54-300-205	
15	Lock nut	2	31-201-016	
16	Locking ring	4	20-101-020	
17	Bolt	2	28-112-075	
18	Flange nut	2	31-601-012	
19	Lubricating nipple	2	57-000-006	
20	Washer	8	36-300-016	
21	Lock nut	4	31-101-016	
22	Lock nut	2	770310203	
23	Hydraulic distributor	1	77-601-165	
24	Hydraulic steering unit	1	910334151	
25	Steering wheel	1	0032.0412	
25.2	Cover plug	1	0032.0412 prop	
26	Flange bolt	4	29-308-016	
27	Rubber cuff	1	8540-10797	
28	setscrew	4	29-116-045	
30	Male stud coupling	4	A08RL	
31	Bonded seal	4	42-000-014	
33	Hydraulic hose number 14-17	4	77-801-455	M14xM14 90° 270 mm
34	Hydraulic hose number 13	1	77-801-454	M14xORFS 1500mm
35	Hydraulic hose number 12	1	77-801-456	M14 45°xORFS 1500mm



Multitruck Hydraulik 48/12V

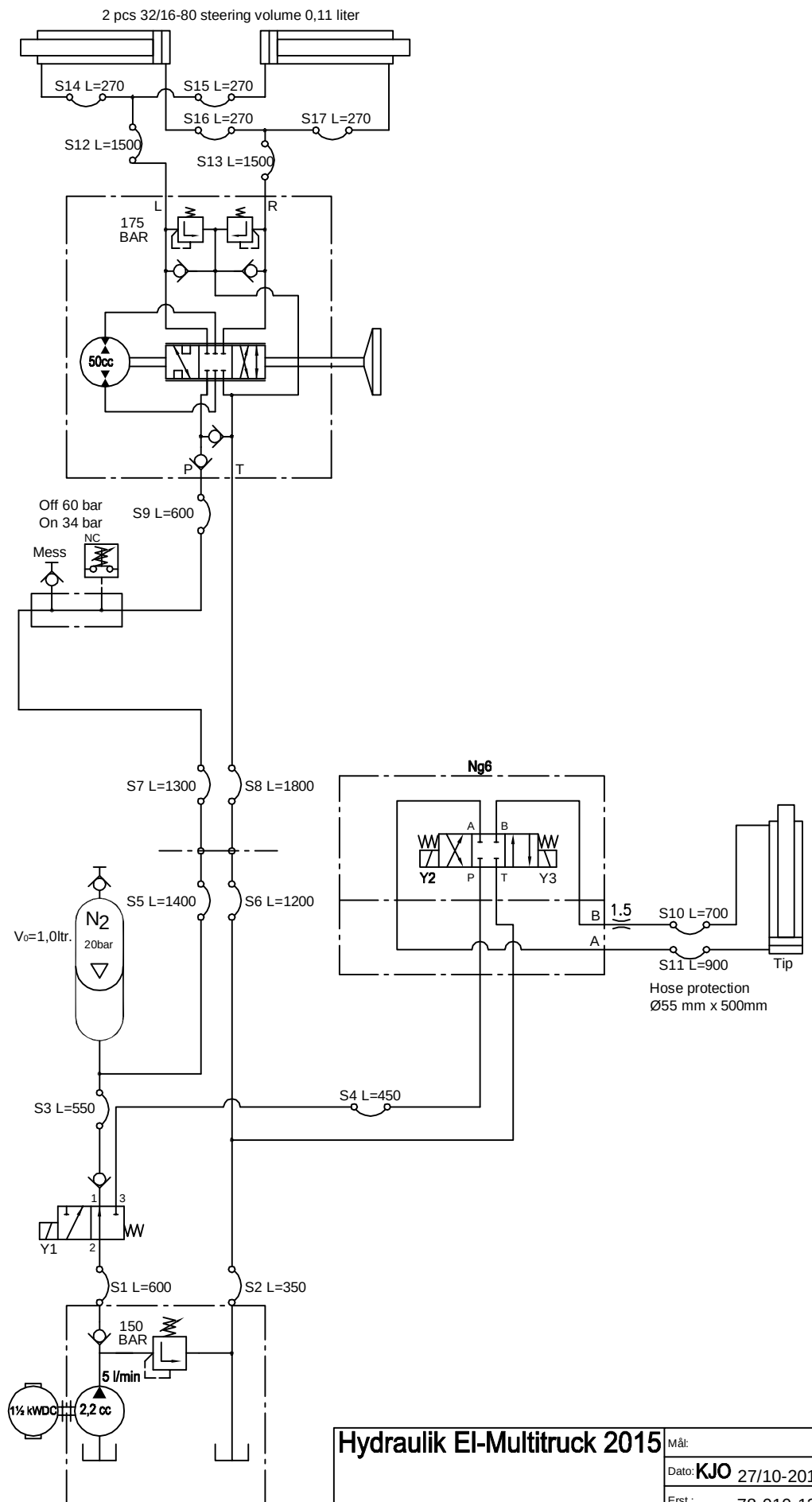
Partno 78-410-230 (Efterfølger 78-010-130 48/24V)

22/10-2014 KJ





Pos.	Description	Pcs	Sparepartno	Note
1	Bracket	1	77-604-169	
2	Vibrationdamper	2	1109-3503010	
3	Powerpack	1	HF48C20-03-1,5-2,2-4P	
6	Male stud coupling	3	A08RL	03-800-000
7	Hose nr. 1	1	031-0600-FM149-FM149	03-800-000
8	Valve block	1	7028720	
9	Cartridgevalve	1	SV08-30-0-N-0	
10	Solenoid	1	6306012	
12	Hydraulic hose number 3	1	031-0550-FM140-FM149	03-800-000
14	Checkvalve	1	A12020001	0,5 Bar
15	Bonded Seal	6	42-000-014	03-800-000
16	Nipple	1	02BP0604	03-800-000
17	Bonded Seal	6	42-000-038	03-800-000
19	Adjustable Tee coupling	1	VD08LDKO	03-800-000
21	Male stud coupling	1	A08LM18	03-800-000
22	Cupper seal	1	42-100-018	03-800-000
23	Hydro pressure storage	1	H1000R20	P0 = 20 Bar
24	Holding bracket	1	337329	
29	Hydraulic hose number 4	1	031-0450-FM149-FM149	03-800-000
30	Male stud coupling	1	A08LR3/8	03-800-000
31	Valve block	1	ES3A38P	
32	Cetop 4/3 way valve	1	DL3-S1/10N-D12K1	
33	Allen screw	4	32-105-030	03-800-000
35	Male stud coupling	1	A08LR3/8-M8	03-800-000
36	Nozzle	1	DYSE-8-1,50U	03-800-000
37	Screw-on fitting	1	AI08LR1/4	03-800-000
38	Male stud coupling	3	A10LR3/8	03-800-000
39	Adjustable elbow coupling	1	VB08LDKO	03-800-000
40	Adjustable Tee coupling	1	VC08L	03-800-000
41	Hydraulic hose number 2	1	031-0350-FM140-FM149	03-800-000
42	Tailstock screw	2	32-210-020	
50	Locking washer	2	35-200-010	
51	Setscrew	2	29-110-016	
52	Long nut	2	31-040-006	
56	Nipple	1	01BP04	03-800-000
57	Hydraulic hose number 6	1	031-1200-FM140-FM140	03-800-000
58	Hydraulic hose number 5	1	031-1400-FM140-FM140	03-800-000
3	Hydraulic oil	5L	ISO VG32	



Hydraulik EI-Multitruck 2015

Måt:	
Dato:	KJO 27/10-2014
Erst:	78-010-130
Nummer:	78-410-230
Erst. af:	

Model: 78-202-501

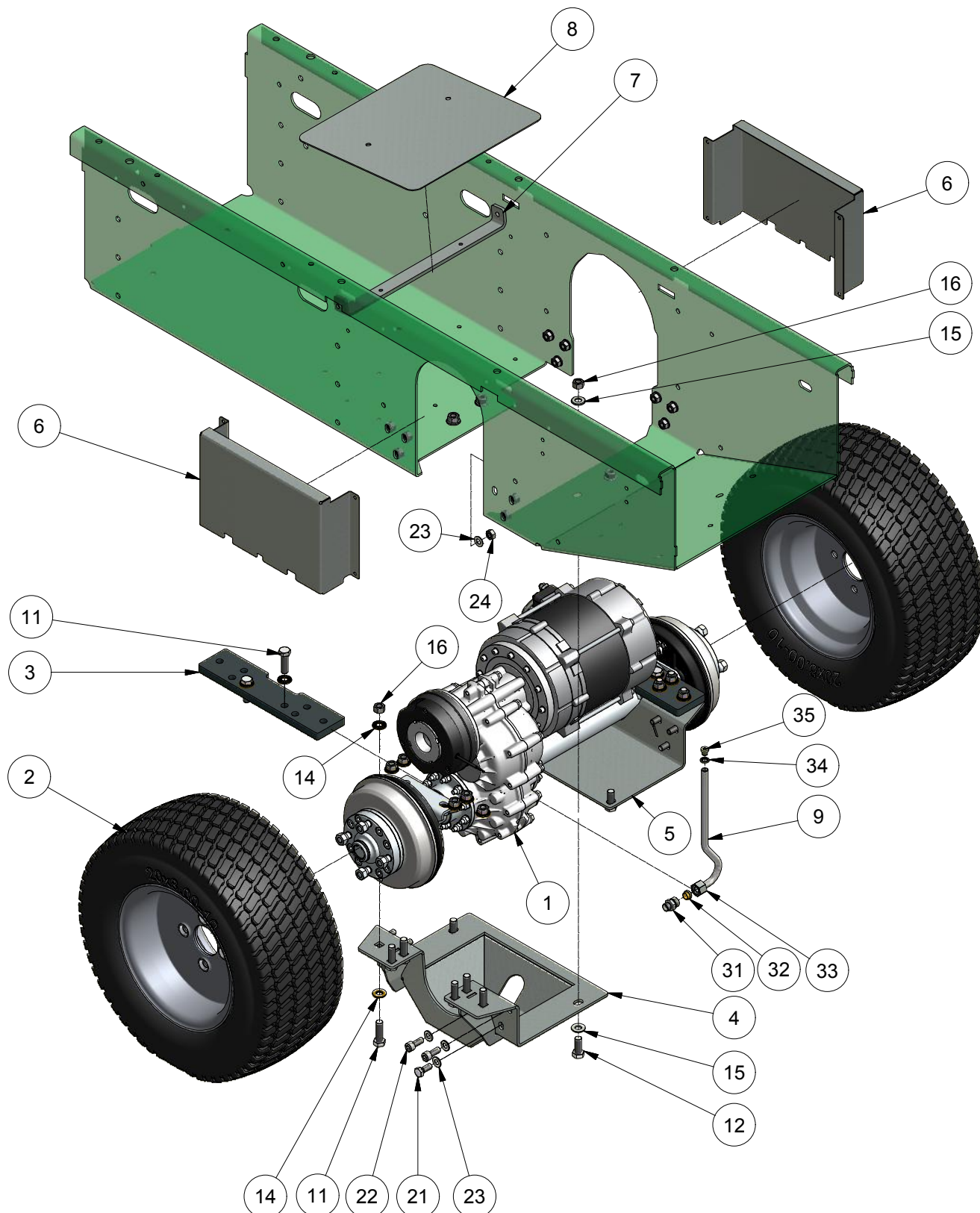
GMR maskiner a/s



Multitruck TX2 Transmission, Antrieb

Partno 78-010-160 Model 2015

2015.03.25 KJ



TX2 Transmission, Antrieb

Partno 78-010-160
Model 2015

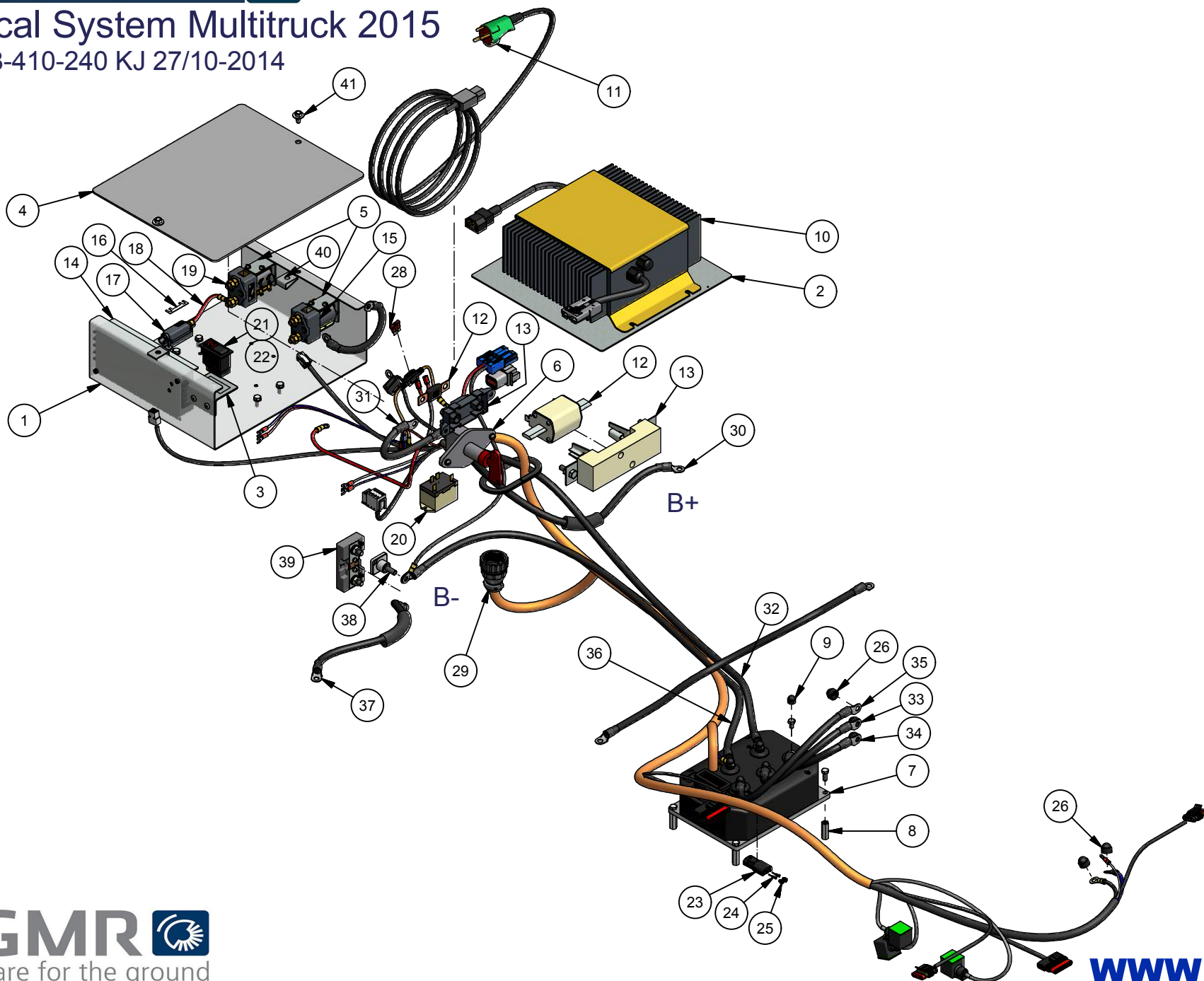


Pos.	Description	Pcs	Sparepartno	Note
1	Motor transaxle	1	OF101011GM01	5kW 48VAC 22:1
2	Rear wheel	2	TT.1020800-01	Std. 20x8,0
			78-307-210	TÜV Option 185/60R12C
3	Mount for transaxle	2	78-005-415	
4	Transaxle bracket left	1	78-005-410	Left
5	Transaxle bracket right	1	78-005-420	Right
6	Transaxle screen	2	78-006-420	
7	Bracket	1	78-010-161	
8	Cover plate	1	78-010-162	
9	Gearoil fill tube	1	78-503-351	
11	Setscrew	16	29-112-040	M12 x 40mm
12	Setscrew	4	29-112-030	M12 x 30mm
14	Locking washer	32	35-200-012	
15	Washer	8	36-300-012	
16	Nut	20	31-001-012	M12
21	Bolt	4	29-110-025	M10 x 25mm
22	Allen screw	8	32-110-025	M10 x 25mm
23	Washer	24	36-300-010	
24	Nut	12	31-001-010	M10
31	Reducer connection	1	ER12/08L	
32	Cutting ring	1	DS12L	
33	Coupling nut	1	M12L	
34	Bonded seal	1	42-000-018	
35	Plug	1	08BPU02	



Electrical System Multitruck 2015

Partno 78-410-240 KJ 27/10-2014

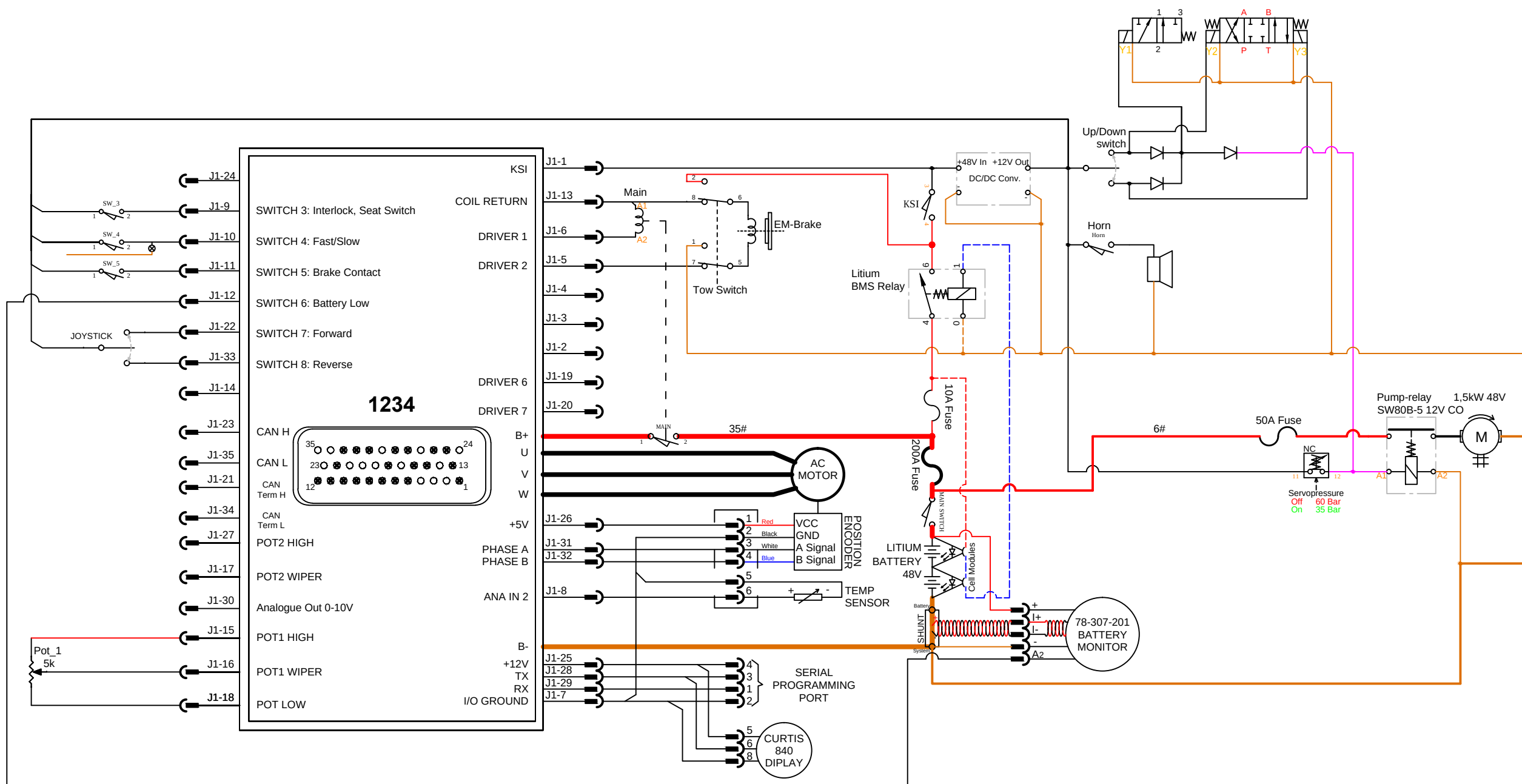


Electrisch Steuerung, Electrical system

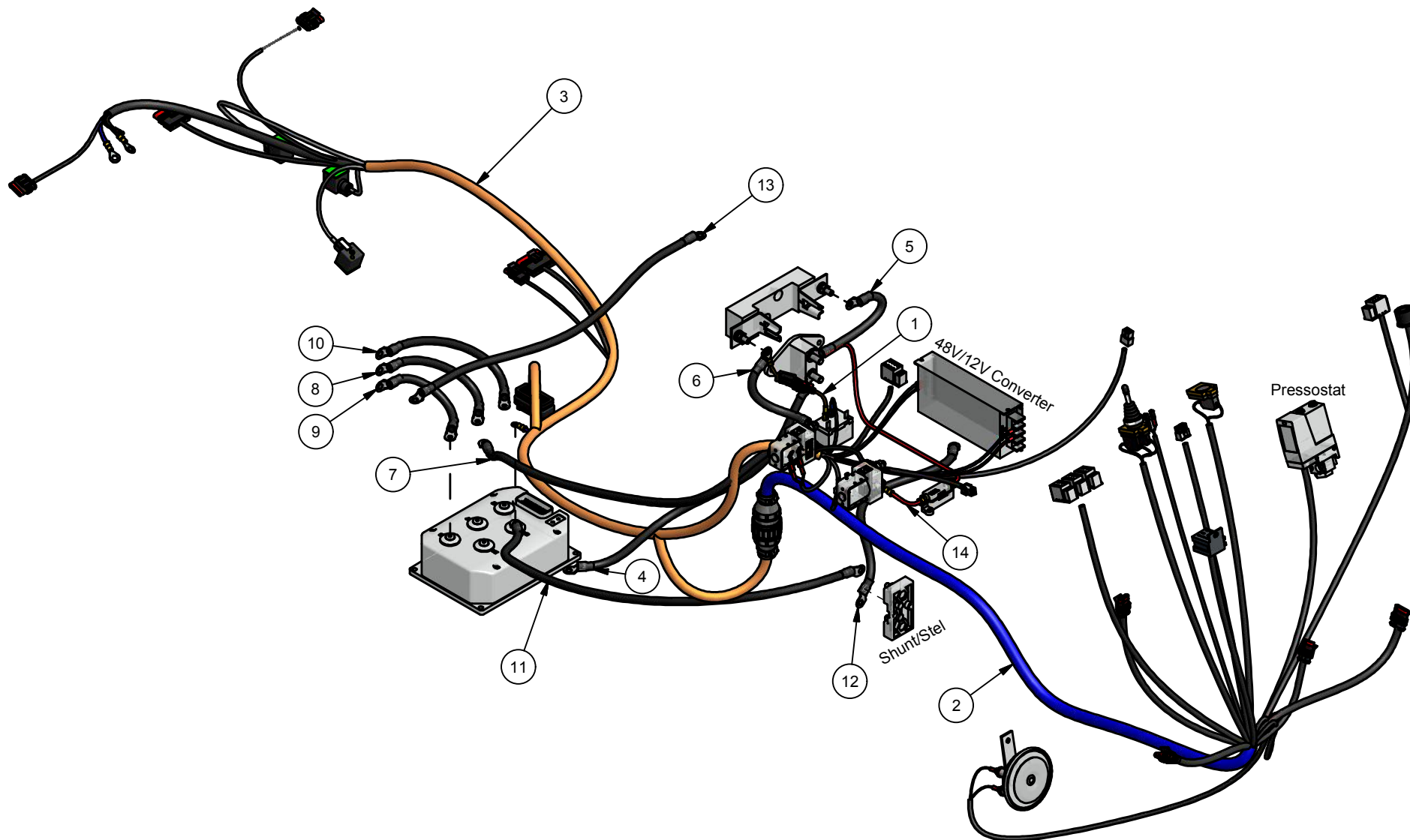
Partno 78-410-240 Multitruck 48/12V

Model 2015 - 27/10.2015

Pos.	Description	Pcs	Sparepartno	Note
1	Mounting plate	1	78-010-141	
2	Plate for charger	1	78-010-142	
3	Bracket for rockerswitch	1	78-010-144	
4	Cover plate	1	78-010-145	
5	Bracket for relay	2	77-801-561	
6	Main switch	1	1420-104005	
7	Motor controller	1	378145371	Curtis
8	Long nut	4	31-040-006	M6
9	Cap nut	5	RM-12837-500	M6
10	Charger	1	18141700-4801	48V 18A
11	Powercord DK	1	78-010-148	
	Powercord Schuko	1	78-010-149	
	Powercord UK	1	78-010-160	
12	Mainfuse	1	192230	Megafuse 250 A
	Mainfuse	1	825102620	200 A (Option Litium)
13	Fuse holder	1	192055	
	Fuse holder	1	2625214651	NH1 (Option Litium)
14	Converter	1	RSD-200C-12	200W 48/12V
15	Main contactor	1	SW80-10CO	48V
16	Fuse pumpmotor	1	191186	50A
17	Fuse holder	1	191190	
18	Powercable	1	9806027	6#
19	Pump relay	1	SW80B-5CO	12V
20	Lithium BMS relay	1	2014-0026	(Option Litium)
21	Tow Rocker switch	1	511106	
22	Switchsymbol 'unbrake'	1	596174	
23	Multiconnector	1	190279	EM-Brake
24	Cable shoe	2	192089	Male
25	Superseal	2	192587	
26	Cap nut	5	RM-12338-500	M8
27	Fuse holder cable	1	9806130-1	3#
28	Blade fuse	1	ES837-10	10A
29	Wireharness rear	1	9806132	
30	Powercable B+ to mainswitch	1	77-801-791	35#
31	Powercable mainswitch to fuses	1	9806133	35#
32	Powercable controller B+	1	9806032	35#
33	Powercable 'V'	1	9806029	35#
34	Powercable 'U'	1	9806030	35#
35	Powercable 'W'	1	9806031	35#
36	Powercable controller B÷	1	9806134	35#
37	Powercable battery minus	1	9806135	35#
38	Cable connector terminal	1	2014-0025	M8
39	Current Shunt	1	78-307-201 shunt	(Option Litium)
40	Clips nut	2	85-47-101-15	ST6,3
41	Opel screw	2	29-914-016	



GMR Multitruck schematic		Mål:
		Dato: 2014-08-27
KJO		Erst.:
Model: 78-202-501	Nummer: 9806130	
GMR maskiner a/s		Erst. af:



Værktøj type	Nummer	Nr.	Ændring	Sign/dato	Frimål	
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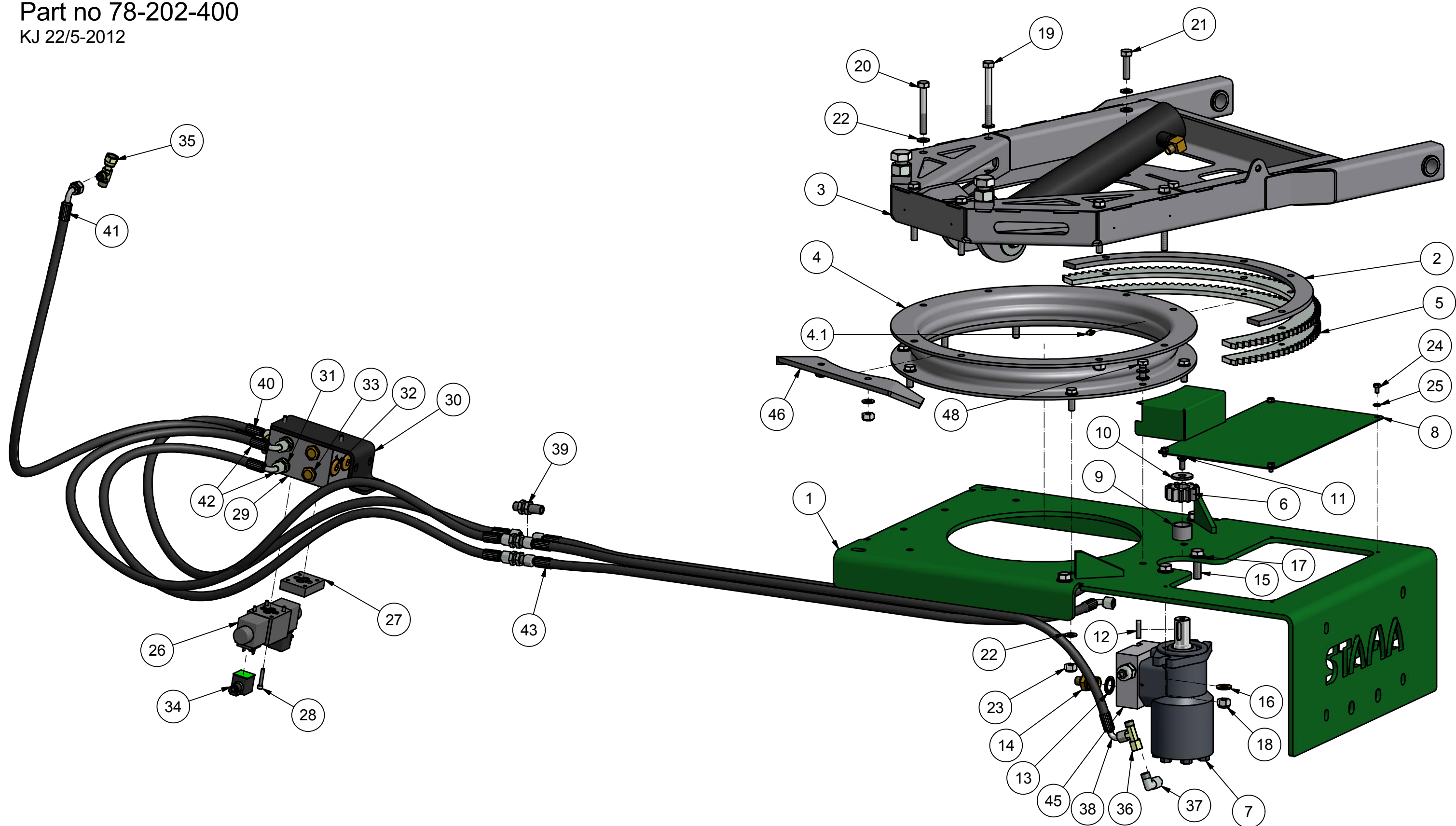
El-Truck 48VAC

Model 2015 - 1/9.2014

Ledningsnet 9806130



Pos.	Benævnelse	Antal	Nummer	Bemærkning
1	Sikringsholder med kabelsko	1	9806130-1	10 A
2	Ledningsnet Multitruck front	1	9806131	48/12V
3	Ledningsnet Multitruck bagerst inkl. pumpekabler	1	9806132	48/12V
4	Batterikabel B+ til hovedafbryder	1	77-801-791	35# 600mm Ø8/Ø10
5	Batterikabel hovedafbryder til sikringer	1	9806133	35# 200 mm Ø10/Ø8 & 6# 400 mm Ø6
6	Batterikabel hovedsikring til hovedrelæ	1	9806033	35# 200mm Ø8/Ø8
7	Batterikabel hovedrelæ til Curtis B+	1	9806032	35# 900mm Ø8/86
8	Batterikabel El-motor V	1	9806029	35# 250mm Ø8/Ø6
9	Batterikabel El-motor U	1	9806030	35# 200mm Ø8/Ø6
10	Batterikabel El-motor W	1	9806031	35# 300mm Ø8/Ø6
11	Batterikabel Curtis B÷ til System÷	1	9806134	35# 900 mm Ø6/Ø8
12	Batterikabel System÷ til Batteri÷	1	9806135	35# 500 mm Ø8/Ø8
13	Batterikabel forbinder side til side	1	9806113	35# 600mm Ø8/Ø8
14	Kort pumpekabel i sædekasse	1	9806027	6# 100mm Ø8/Ø6



Hydraulic Turntable

Hydraulisch Drehschemel

Model 2012 Part no. 78-202-400



Pos.	Description	Pcs	Sparepartno	Note
1	Mounting base	1	78-202-440	
2	Distance plate	1	78-202-408	
3	Lower part	1	78-202-420	
4	Turntable ball bearing	1	78-202-430	500 mm
4.1	Lubricating Nipple	1	57-000-006	
5	Cogwheel lower	1	78-202-401	Modul 4, Z129
5	Cogwheel upper	1	78-202-415	Modul 4, Z129
6	Cogwheel	1	45-125-412	Modul 4, Z12
7	Orbitmotor	1	W255240A6312	
8	Cover screen	1	78-202-410	
9	Distance pipe	1	78-202-404	
10	Heavy duty washer	1	36-140-010	
11	Allen screw	1	32-008-020	
12	Key	1	34-108-730	
13	Bonded seal	4	42-000-012	1/2"
14	Adaptor Nipple	4	02BP0804	1/2" x 1/4"
15	Bolt	2	29-112-040	
16	Locking washer	2	35-200-012	
17	Washer	4	36-300-012	
18	Lock nut	2	31-101-012	
19	Bolt	2	28-110-100	
19	Bolt	2	28-110-090	
20	Bolt	2	28-110-080	
21	Setscrew	2	29-110-040	
22	Washer	+9	36-300-010	
23	Lock nut		31-101-010	
24	Bolt	4	29-106-010	
25	Washer	4	36-300-006	
26	Electric Cetop valve	1	DL3-S1/10N-D12K1	12 V
		1	DL3-S1/10N-D12K1	24 V
27	Blind cover	1	EB103	
28	Allen screw	4	32-105-030	M5 x 30mm
29	Hydraulic manifold	1	EM213/2Y	
30	Bracket	1	78-103-403	
31	Adaptor Nipple	2	02BP0604	
32	Plug	2	08BPU08	1/2"
33	Plug	2	08BPU06	3/8"
34	Valve connector	2	7000-18021-6260300	



Hydraulic Turntable Hydraulisch Drehschemel

Model 2012 Part no. 78-202-400



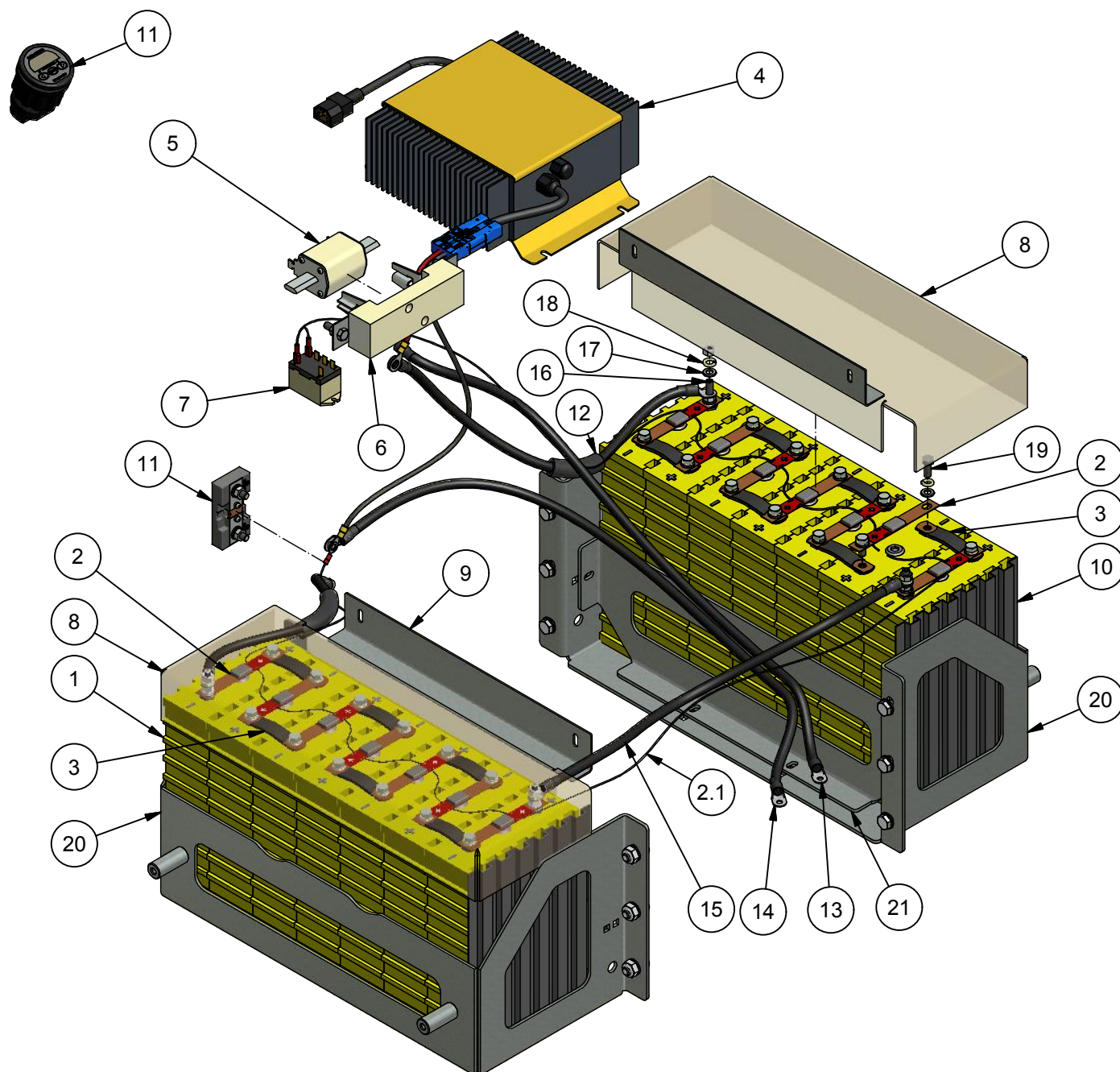
Pos.	Description	Pcs	Sparepartno	Note
35	Adjustable Tee	1	134FS04	9/16"-18
36	Adjustable Tee	1	VD08LDKO	
37	Adjustable elbow	1	VB08LDKO	
38	Hydraulic hose number 18	1	031-1200-FM140-FM149	1/4" 1200 mm
39	Bulkhead connector	3	K08L	
40	Hydraulic hose number 19 (P)	1	031-1650-FM140-FM149	1/4" 1650 mm
41	Hydraulic hose number 20 (R)	1	031-1300-FM140-FO099	1/4" 1300 mm
42	Hydraulic hose number 24+25	2	031-1600-FM140-FM149	
43	Hydraulic hose number 26 (B)	1	031-1150-FM140-FM149	
44	Hydraulic hose number 27 (A)	1	031-1100-FM140-FM149	
45	Crossover pressure valve	1	VS50FMDI/1Y04B	
46	End stop	1	78-202-409	
47	Bolt	2	28-112-055	
48	Bolt	3	29-110-025	



Batteripakke / Batteriepaket / Battery pack

78-410-250 Lithium 44V 160Ah 35#

17/11-2014 KJ



Batteripakke / Batteriepaket / Batterypack

77-801-790 Litium Ion 44V 160Ah

Model 2015 Drawing 78-410-250 - 17/11.2014

Pos.	Description	Pcs	Sparepartno	Note
1	Lithium Iron Phosphate cell	14	LFP160AHA	
2	Cell monitor, balancer	14	BMS-CM160	
2.1	Daisy chain wire	-	9806114	0,5#
3	Copper connector plate	12	LFP160-CON	
4	Battery charger	1	18141700-4801	48V 18A
5	Main fuse	1	0825102620	200 A
6	Fuseholder	1	2625214651	
7	Battery Management System relay	1	2015-0013	
	Relay socket	1	2015-0012	
8	Cover screen	2	78-203-386	
9	Screen holder	2	78-203-387	
10	Spacer plate	2	-	10 mm
11	Battery monitor and shunt	1	78-307-201	
12	Powercable 48V+	1	77-801-791	M8 - M10
13	Powercable motor controller	1	9806032	900 mm
14	Powercable system ÷	1	77-801-793	M6 - M8
15	Connector Powercable	1	77-801-794	M8 - M8
16	Thread stud screw	4	32-208-045	
17	Washer	28	36-300-008	
18	Spring washer	28	35-000-008	
19	Bolt	28	29-108-020	
20	Battery holder, side	2	78-006-400	
21	Clamping plate	2	78-006-406	